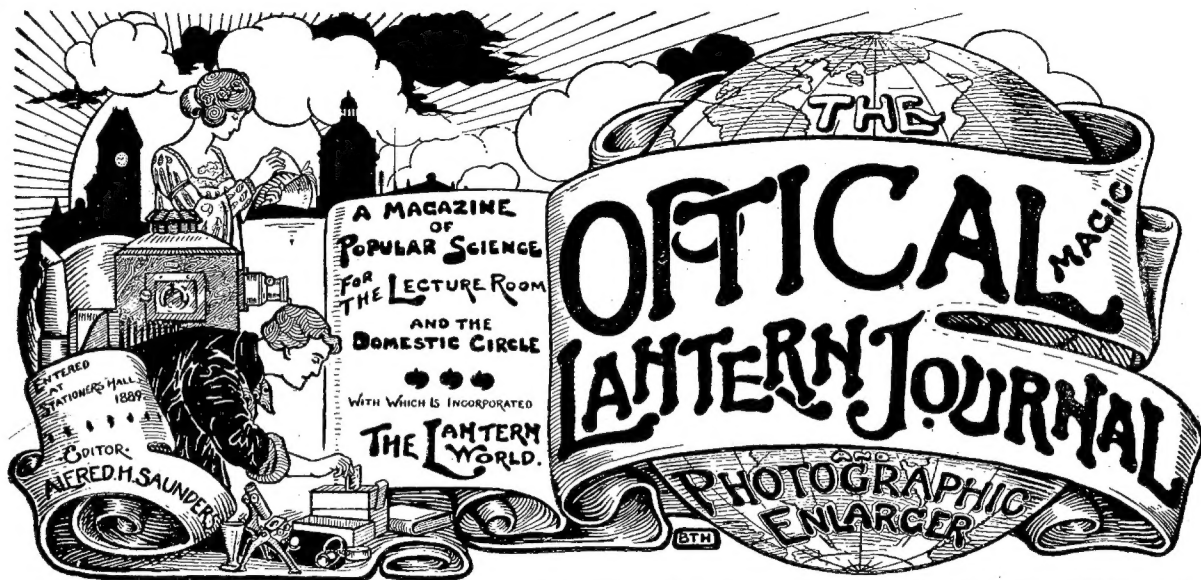


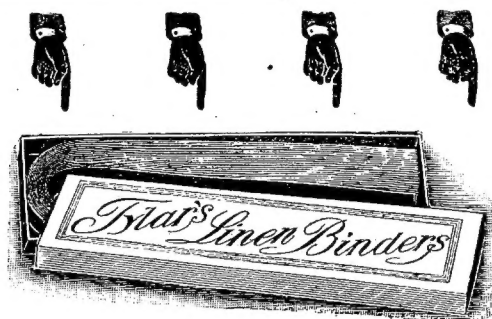


Vol. 13.—No. 156.

MARCH, 1903.

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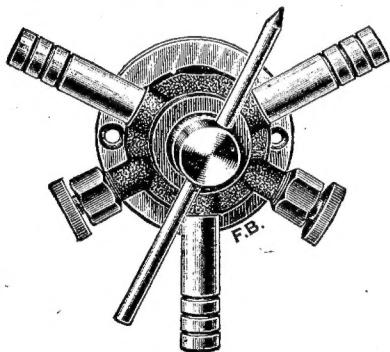
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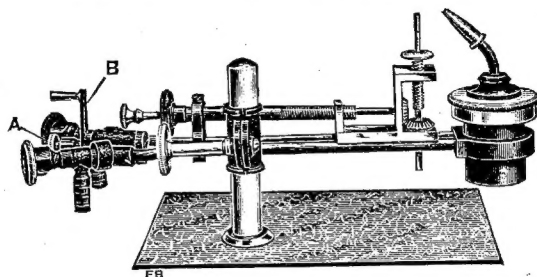


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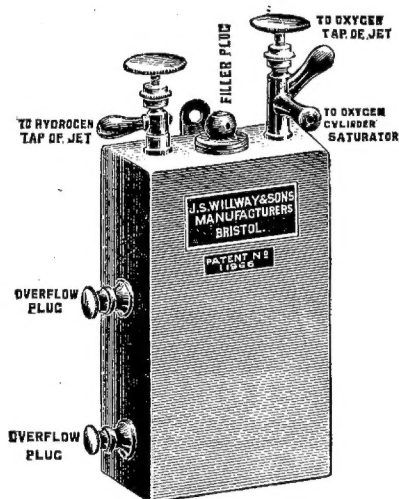
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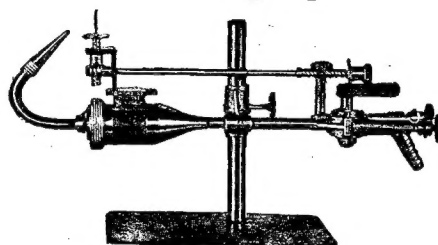
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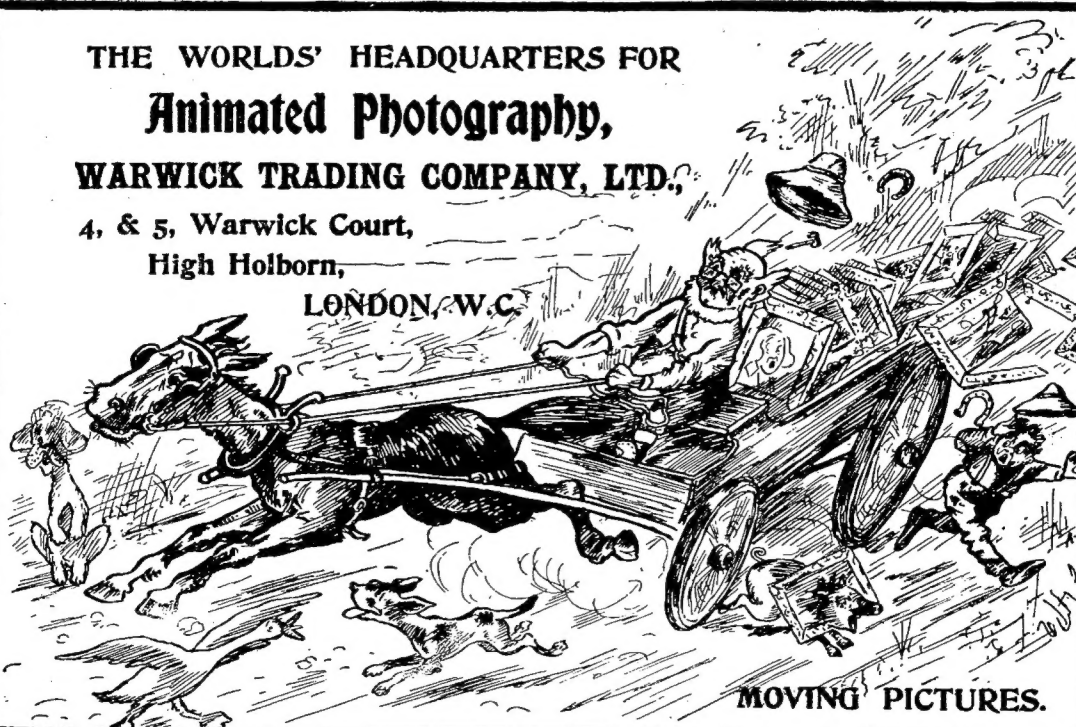
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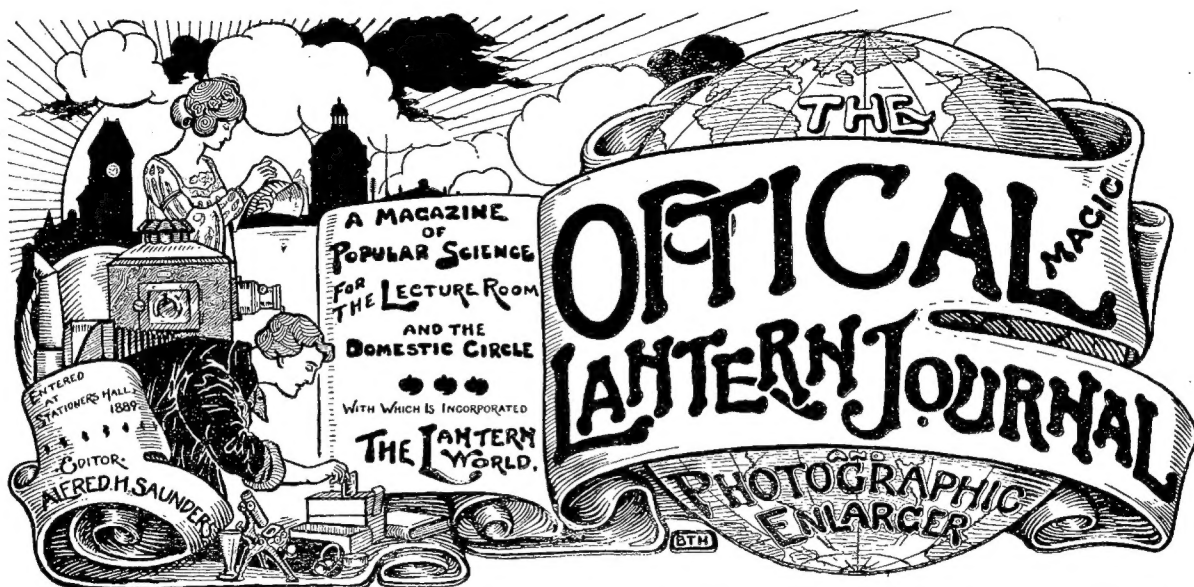
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Vol. 13.—No. 156.

MARCH, 1903.

Price 2d. Post free 3d.

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The Optical Magic Lantern Journal and Photographic Enlarger is issued on the 1st of every month, price Twopence, and may be obtained from all Newsvendors, Railway News Stalls, Photographic Dealers or from the Publishers, at the following rates, post free :—

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Notice of Removal.

The Registered Office of the **Magic Lantern Journal Company, Ltd.**, is removed from 9A, Carthusian Street, London, E.C., to **Prince's Chambers, 6, Corporation Street, Birmingham.** And the **Optical Magic Lantern Journal** will be published from the same address, **Monthly**, under the Editorship of **ALFRED H. SAUNDERS**, to whom all communications relating to the business of the Company and the Journal should be addressed.

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Mere Mention.

Norwich.—Y.M.C.A. assembled on February 11th to hear the Rev. H. Freeman on his reminiscences of a tour round the British Isles. The lecture was illustrated by limelight views, and proved highly interesting, most of the lantern slides having been made by the lecturer from snapshots taken by himself with a Kodak.

Missionary work among Red Indians was the title of a lecture delivered in the City Hall, Glasgow, on February 10th, by the Rev. Egerton R. Young, and embodied "A trip by Dog-Train and Canoe." The Chairman, in introducing the lecturer, said that Mr. Young had been for the long period of thirty years a pioneer missionary in North-West Canada among the Red Indians. The lecturer, whose remarks were illustrated by lime-light views, described in an interesting and entertaining way life among the Red Indians, with particular reference to his own experiences as a missionary among them. During the evening a series of animated pictures depicting scenes in connection with the Coronation, the Durbar at Delhi, and other interesting events were shown on the screen by aid of the Bioscope.

Professor Sheridan Delephine delivered a lecture, illustrated by lantern slides, on "Health dangers in Food," in the Theatre of the Royal Institution, Albemarle Street, London, on Feb. 11th. He said it was necessary to consider the dangers as well as the benefits that arose from a civilised and artificial mode of life. The question of diet was one of national importance, which demanded the attention of Governments to secure purity in articles of food and drink. A typical case of contamination was the outbreak of arsenical poisoning in the North; and arsenical crystals occurring in sulphuric acid were shown. In manufacturing districts the air was chemically contaminated, and arsenic had been obtained from snow gathered at Manchester. The next case dealt with was the pollution of oyster-beds by sewage, and the cause of the illness that had followed the consumption of oysters contaminated by sewage was seen in the bacillus of typhoid fever. For the past six years the sanitary authorities had given warning of the danger, but had been unheeded; and some fatteners even maintained that sewage water was good for the storage ponds. The cases of ptomaine poisoning at Derby and elsewhere from eating pork-pies were shown to follow naturally from the surroundings of the factory, close to which were

refuse and manure heaps and a slaughter-house. A form of the bacillus of enteritis was found in the jelly of the pies, and a simple experiment showed that the meat in the centre had not been sterilised by baking. The last danger referred to was that of preservatives in milk and other articles of food.

Professor Macalister, M.D., F.R.S., Lectured on "Personal Experiences of Palestine Exploration," on February 20th, in the Theatre of the Royal Dublin Society. The address, which was of a very interesting nature, was beautifully illustrated with limelight views. The lecturer dealt at considerable length with the observations he had made during a three months' stay last year at the camp of his son, who is superintending the excavations now progressing at Cezer. He explained that during his sojourn at the works the great burial cave and the temple of the "Mother Goddess" had been unearthed, and the "finds" there included very many objects of historic and archaeological interest. There were traces of human sacrifices having been made, and in the temple a mass of pure gold had been found, which was handed over to the King. Not one-tenth of the entire hill had yet been touched, and a great deal of work remained to be done.

Sunday Lantern Services.—The first of a series of lantern services was held in Sale Memorial Church, Sheffield, on Feb. 1st. As soon as the congregation had filed out of the church, willing hands withdrew from its hiding place a tightly-stretched screen 12 feet square. This was looped on to two dexterously hidden cords, running over pulleys high up in the rafters of the building. Others carried the oxy-hydrogen apparatus, already set up in readiness, to sundry chalk marks on the pavement, placed there at a previous rehearsal. At 8-30 the lights were lowered, and a hymn slide was projected on the screen, followed by a printed prayer, which was thus before the eyes of the congregation at the same time as its intonation by the Vicar. Then followed the text projected in the same manner, "He entered unto His own, and His own received Him not," which served as a basis for a homely address on the history and lessons of Christianity. The service was not only decorous, but impressively solemn.

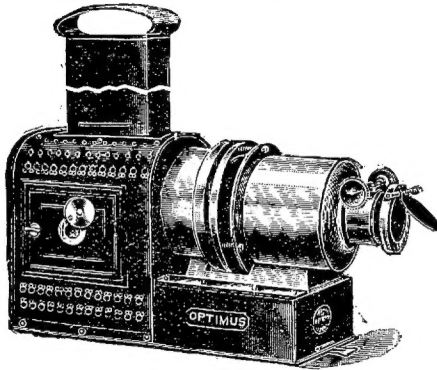
A large congregation again assembled at Sale Memorial Church, on Sunday night, Feb. 15th, and participated in the lantern Service, organised by the Vicar, the Rev. W. Bracewell. According to a correspondent, the fears of those who at the inception of this series of limelight addresses

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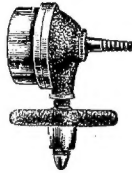
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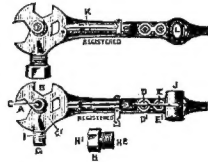
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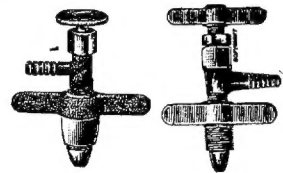
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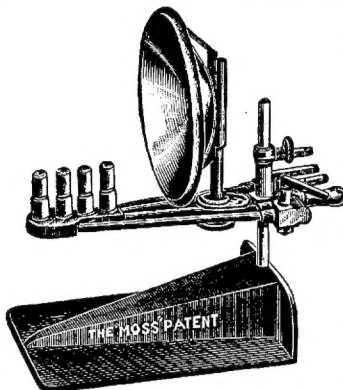


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Now then, Lanternists, wake up!

Acetylene Gas is the light for you,

Better than any oil lamp.

Better than mantles.

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were somewhat alarmed lest a whiff of irreverence might creep in were completely dissipated, not a word, phrase, or picture being employed to which the most censorious could object. General approval of this original method of missioning was expressed by those present.

"Splashes" was the title of a lecture at the Liskeard Literary Institution, on July 12th, by Professor Worthington, C.B., M.A., F.R.A.S., of Keyham College, Devonport, who gave an able lecture descriptive of the phenomena attending the impact of liquid on liquid and of solid bodies of different characteristics falling into liquid. The lecture was beautifully illustrated by 100 photographic lantern views, all taken under the supervision of the lecturer and at the marvelously brief exposure of something under 1-3000th part of a second. These views depicted the strange and wonderful effects, as revealed by the camera, of a drop of water falling into similar liquid rendered opaque by the addition of a little milk, a drop of milk falling into water, and smooth and roughened spheres similarly falling from heights of 1ft. and 5ft. The Professor compared the similarity of the effects with those produced by the impact of a projectile on a steel plate. These curious effects have hitherto been unsuspected, being too rapid for perception by the human eye, and only revealed by means of electrically-aided photography.

White Slaves of England Lantern Lecture.

—On Tuesday evening, Feb. 24th, a lantern lecture, arranged by the Education Department of the Huddersfield Industrial Society, Limited, was delivered in the United Methodist Free Church School, Almondbury, by Mrs. Marshall on "The White Slaves of England." These, she stated, embraced the alkali workers at Widnes and St. Helens, nailmakers at Bromsgrove, slipper makers and clothiers of Leeds, wool-combers at Bradford, and chainmakers at Cradley Heath. She gave full details of work, hours of employment, and wages, and considered these operatives as "white slaves." A series of slides of a co-operative clothing factory showed the contrast between the workers there and at Leeds, to the disadvantage of the latter.

"Lectures for the People" in Leeds.

The first of a series of three "lectures for the people on the natural history of the country" was given on Wednesday evening, Feb. 25th, in the Leeds Philosophical Hall, by Mr. H. Crowther, Curator of the Philosophical and Literary Society's Museum. Admission being obtainable on a merely nominal charge—the sum of one penny—

there was a large audience present, including a certain proportion of young folks. The lecturer discoursed in pleasant fashion of plants of the hedgerows and woods, and illustrated his story of this always interesting side of nature with numerous lantern slides, which were greatly appreciated by his listeners. The other lectures will treat respectively of "Beasts and Birds," and of "Flying insects and crawling snails."

Magic Lantern Slides.—Mr. E. S. Howard (the trustee of A. A. Wood, deceased), of St. Bartholomew House, Fleet Street, sued Mr. L. Mitchell, of Holmesdale Lodge, Dartford, for 12s. for the supply of lantern slides and lines supplied. It appeared that the defendant had agreed to subscribe the sum of £1 1s. for which amount he was entitled to receive 250 slides. As a matter of fact, he had 140 slides, valued at 8/9, and one dozen limes, of the value of 3/3, making the 12/- now sued for. As the subscription had not been paid, the plaintiff now claimed for the goods supplied. The defendant admitted having had the goods, but gave evidence to the effect that he had paid the subscription. He also produced the cheque. He, therefore, counterclaimed for the balance of 9/- due to him on the cheque paid after allowing for the value of the goods. The Registrar found for the defendant on the claim, and for 9s. on the counterclaim, and awarded 7/6 for costs.

Dr. E. H. Tripp, F.C.S., lectured at the Swansea Free Library on "Aluminium." The subject was dealt with in a very interesting way. The lecturer traced the discovery of aluminium, and explained the methods of production and its uses. A number of lantern slides were shown, and a few interesting chemical experiments made.

Burton Liberal Club.—A lantern lecture under the auspices of the Garden City Association was given at the Liberal Club on Tuesday evening, February 17th, by Miss Illingworth. The first picture thrown on the screen was a sketch of London, which was shown in order to illustrate the terrible state of overcrowding, and the very few green places which existed there. Perhaps the most appalling evil of the overcrowding of their huge cities was the fact that very poor people were compelled to live in unhealthy and dirty surroundings. As an example of this she proceeded to show views of families gathered together in slums in various towns—York, Birmingham, Bradford, &c.—from a glance at which one could readily understand how it was illness, when it broke out, so rapidly spread. Proceeding, she showed a photograph of block

dwelling—the American idea to solve the overcrowding question—which, however, she was not in favour of. From Port Sunlight, the estate of Messrs. Lever Bros., who had worked hard for the health of their employees, the audience were taken to Bournville—the estate built by the generosity of that noble philanthropist, Mr. George Cadbury, who purposely removed his cocoa works from Birmingham, in order to carry out this scheme. Views of the houses—all built in a different kind of architecture—were presented, and incidentally the lecturer remarked that Mr. Cadbury always had on his list a hundred or more names of applicants for these beautiful homes.

Bradford Philosophical Society met on February 18th, to hear Dr. Tempest Anderson, F.G.S., describe his experiences as a member of the commission sent out by the Royal Society to investigate the volcanic eruptions in the West Indies last May. Dr. Anderson exhibited a great many excellent lantern views from photographs taken by himself—sometimes in circumstances of considerable danger and difficulty—explaining them with eloquent, often tragic, and occasionally humorous running comments, which kept his hearers keenly interested throughout. The later scenes of devastation proved the more striking by contrast with the natural beauties of the islands before the catastrophe, while Dr. Anderson and his party pushed their investigations sufficiently close to the centres of disturbance to obtain a unique series of photographs of amazing natural phenomena. The damage was done, he said, by what might best be described as an avalanche of incandescent dust, the lava with which Vesuvius, for example, rendered Europeans familiar, being blown to shivers by the tremendous force of the steam which expelled it from the crater. This dust covered the whole of the devastated area to the depth sometimes of hundreds of feet, and when washed out by tropical rains formed extraordinary examples of erosion on a prodigious scale in very short spaces of time. Dr. Anderson reached the West Indies about a month after the first and most serious of the eruptions, and found the volcanic dust still almost red heat. The party were fortunate in witnessing from a small boat at the Carbet a second eruption of Mont Pelée, a facsimile of the first on a somewhat smaller scale, and altogether had unique opportunities of observation and investigation. They came to the conclusion, however, that, great as the destruction was both in St. Vincent and Martinique, it was nothing to what had been caused by the eruptions of the past. The volcanoes were in their dotage, and old age had made them bad

tempered, but their power for mischief was small now as compared with that of the days of their youth.

Advertisers, Note:—A novel and ingenious way of attracting attention to a series of mission services was seen in the streets of Burgess Hill, Brighton. It took the form a peripatetic lantern show. A powerful lantern and a framed sheet were fixed in an invalid's chair, in the seat of which was an acetylene gas generator. Notice of the mission, with a dozen or so religious pictures, were shown on the screen, a hymn sung, and a loud invitation given to attend the mission. The show would then move on to the next street, and repeat the programme.

Sir Herbert Maxwell, M.P., recently gave an interesting lecture illustrated with lantern slides from paintings on "George Romney and His Works," at the Royal Institution. The lecture dealt with the rival merits of Romney and Sir Joshua Reynolds. Romney was much appreciated during his life, and made over £3,000 a year by his brush, although he painted portraits for sums as low as 20gs. In 1775 the artist returned from Italy and took a studio in Cevendish Square. At that time Kensington and Chelsea were villages. The Duke of Richmond was his first patron, and others quickly followed, and Romney became a most popular portrait painter. He painted from eight every morning until dusk, and then worked at designs in black and white chalk, working thirteen hours per day. He never permitted a pupil to touch his pictures, which are entirely his own. Reynolds, on the contrary, allowed his pupils to help him in his works.

Gospel by Lime-light is said to be the leading principle of the work now being organised at Evanston, Chicago, by Mr. Herbert H. Booth, lately in command of the Salvation Army in Australia.

Mr. J. E. S. Moore, F.R.G.S., lectured before the Cardiff Naturalist Society at the Cory Hall, on February 5th, on "The Mountains of the Moon." The lecturer interested his hearers greatly with his description of the adventures met with on his journey, through Central Africa and along the great lakes, necessary to reach the famous mountain range, parts of which had been hitherto unexplored. A most instructive series of lantern views from photographs taken by the lecturer were shown.

General Advertisements—Continued.

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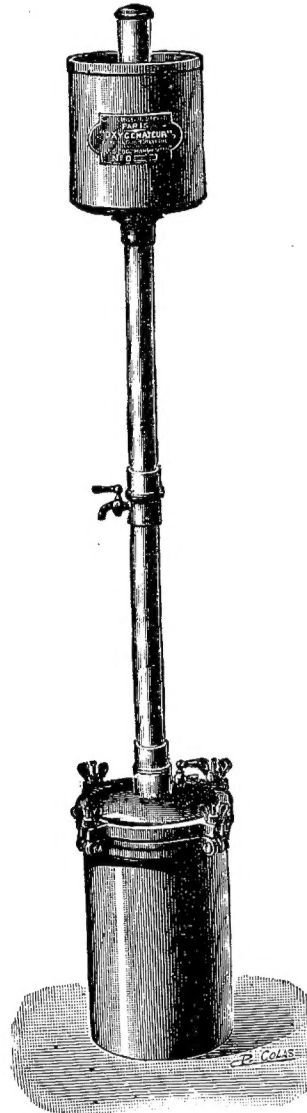
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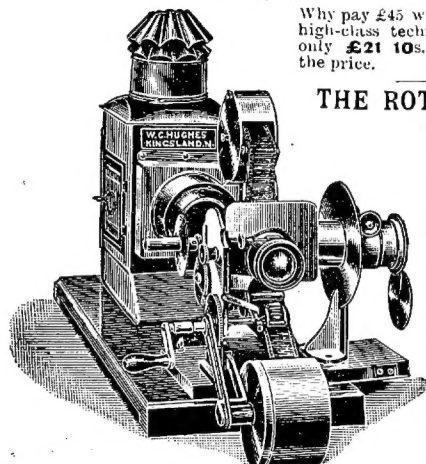
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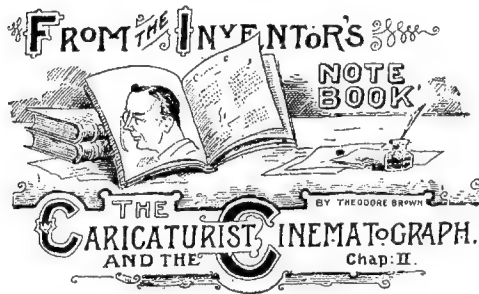
From C. KLARY,

Editor of "Le Photogramme,"

13 RUE TAITBOUT, PARIS.

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Poverty and Crime.—At the London Congregational Union, a lecture on "Poverty and Crime" (illustrated by over one hundred limelight views), was given on Feb. 18th, in the Balham Congregational Church Lecture Hall, by Mr. Stephen White (late inspector of the Criminal Investigation Department, New Scotland Yard, and for many years chief of the Whitechapel detective force). Numerous pictures thrown on the screen depicted only too truly, the great amount of distress that exists especially in the East End of London, where Medland Hall ("The home of the homeless") is situated, which is the only free shelter in London open all the year round, and where such a splendid work is being done by Congregationalists. In the course of his entertaining lecture, Mr. White made a most sensible allusion to the alien question. His pictures depicting some of these aliens moving into houses rented at 28s. per week, brought to one's mind the undeniable fact that this question of the alien population is one that the Government will ere long have to face seriously, the East End being so literally overrun with these continual arrivals, that the genuine British workman was being crowded out of existence. Referring to the work at Medland Hall, the lecturer mentioned that on a Saturday night no less than 824 men were relieved at that place. In concluding, he pointed out that there was no better charity than Medland Hall, where the men could leave at any time, the average cost of a sufficient meal and a separate bed being three-halfpence per man.



From the Inventor's Note Book.

Chapter II.

PERHAPS the highest use to which the cinematograph could be put would be to the re-production of natural phenomena; unfortunately however for the advancement of Science, the majority of mankind prefers passing entertainment to the acquisition of abiding know-

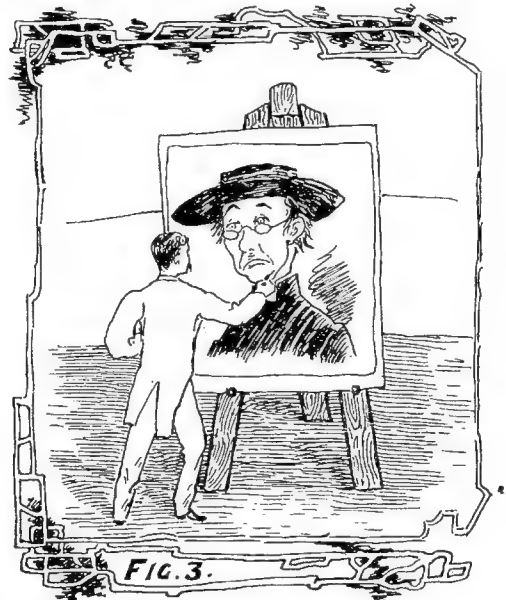
ledge. Nevertheless, this fact need not hinder the scientist in using his knowledge when designing his apparatus, and by so doing he is able to mystify an audience with seemingly miraculous performances. Indeed it is just by the absolute adherence to the laws of natural philosophy that all the most wonderful results have been achieved.

Wonderful as is the ability of the eye to adapt itself to every condition of light, it is not so swift in its activity, as to defy deception, and there is perhaps no instrument that lends itself so well to a variety of optical illusions, as does the cinematograph.

The inventor records in his note book, that he has seen this instrument used for the exhibition of the "Lightning Artist at work;" but that the merit of the performance has been somewhat spoiled by the obvious introduction of trickery—such unnatural changes, as the sudden vanishing of the drawing papers, and other unnecessary effects, giving the spectators the idea that the whole is a faked affair, rather than a combination in which at least some genuine work is done.

Now in view of the little time allowable for a performance of character sketching before the cinematograph camera; the following aids to success are suggested:—

In the first instance we may take advantage of the fact that the lens employed in the camera is not of the acromatic type, and therefore will



not photograph any light blue marks that may be made upon a white surface of equal reflecting

power. Thus we are led to observe that a set of preparatory outlines in blue crayon may be used by the artist as a guide, when executing the black charcoal sketches before the camera. To be more precise—having decided upon the number and the particular celebrities to be caricatured, these are carefully outlined in blue crayon upon white sheets of paper; their names being written at the top in black. An easel, such as illustrated in Fig. 3, should be used. On the board, the four, five, or six sheets are pinned, the top one, having already a caricature drawn upon it in black. This is merely, that as many characters as possible may be exhibited at one performance. Assuming that the easel has been set up before the camera, and all is ready for the taking of the negative; the artist steps forward, bows, and then motions his intentions of art, at the same time moving towards the easel, and without loss of time, snatches the top picture from its place, exposing the apparently blank (except the title) sheet that lies beneath. With rapidity out-pacing the dexterity of a Phil May, he dashes off the sketches, and as each arrives at completion tears it from its place. A previously made drawing is revealed as soon as the last sketch is removed from the easel, the subject being an appropriate humorous sketch bearing the word "Finis;" easily readable by the audience as the artist bows and retires.

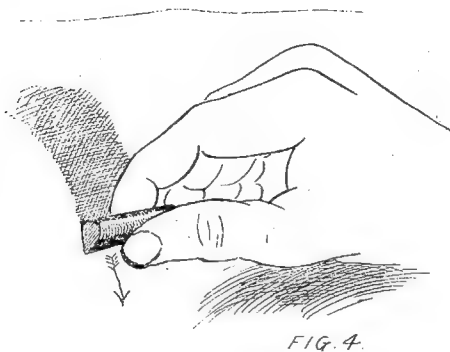


FIG. 4.

A few hints for the preparation of the blue outlines may be of service to any who are not particularly good at original work.

Take as many ordinary lantern plates as may be required, and clear in the ordinary hypo. bath without exposure to light, or developer; when perfectly fixed, thoroughly washed and dry. Now select from the current illustrated papers such outlined portraits of celebrities as you think will prove most popular. Lay the glass plate film side up over the illustration, and trace upon the gelatine in Antoin's Indian ink.

Having obtained as many as required, by means of a lantern, project such outlines on the sheets of paper to be used in the performance before the camera, tracing the projected outlines

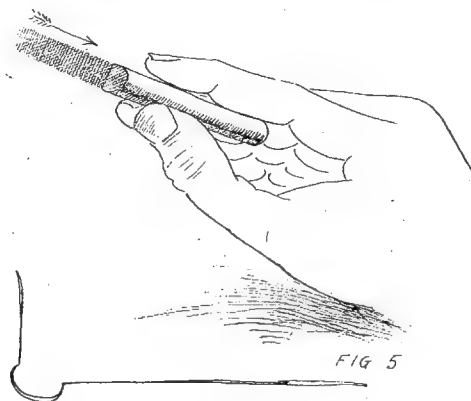


FIG. 5

over with the blue crayon before mentioned. The actual work to be done whilst the cinematograph camera is operated, is merely the lining over, with black charcoal, these preparatory tracings. This operation is however best performed in the following way. Select the softest piece of charcoal obtainable, and rub down on a spare piece of paper, till it has been reduced to a semi-circular stick as shown in the three diagrams, Figs. 4, 5, and 6. Put in the thickest lines with one sweep by laying the stick on its side, Fig. 4. Produce any lines of regular width by drawing the charcoal lengthwise, Fig. 5, and finally make the fine lines by twisting the stick and using it

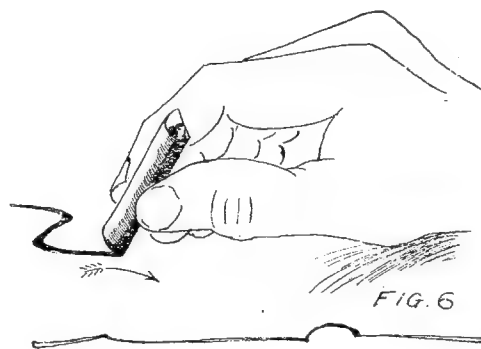


FIG. 6

as in Fig. 6. Should it be necessary or thought desirable, to tone down more elaborate work, a softener, Fig. 7 may be used, this is composed of a soft piece of rag, stuffed with cotton wool at either end, and tied in the middle.

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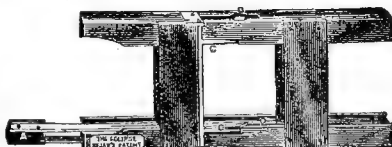
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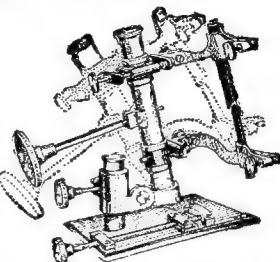
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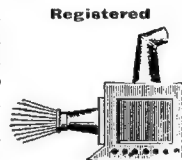
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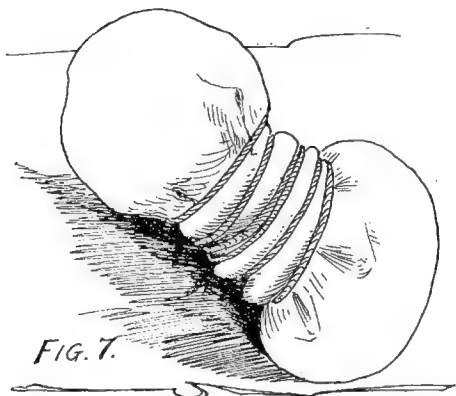
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LECTURING for the youthful element in society, as every word uttered by the speakers costs him some physical loss, literally he dies that others may live, so much of his body being resolved into carbonic acid water and urea, which, however in a protoplasmic sense can always be repaired. But with youth it is different, and wrong notions, imbibed at a period of immaturity, often have a disastrous effect in after-life. Therefore, the lecturer, in selecting a number of slides, should be practically certain that they represent a phase of life and existence which is helpful and hopeful, rather than dry-as-dust and fact-like. The impressions made on a youthful brain vary considerably, which, to clearly understand, it is well if the lecturer keep in view the results of the latest scientific investigations respecting the same.

Briefly then, for experimental purposes, a portion of the brain if frozen and cut into microscopic sections varying between two and three thousand parts of an inch in thickness, is then coloured by sensitive pigments considerably aiding the experimenter in determining its composition, when subjected to a powerful microscopic examination. This examination results in the discovery of three thousand million

bodies termed "neurons," each "neuron" is composed of two-cell bodies, one passive and one active, which together form a projecting axis, supplying the "neuron" with nerve stimulus; each "neuron" is again divided into forty "dendrites," and each dendrite into a thousand ends or "gemmules." This is practically a fully developed brain, or working brain of a normal adult. The cranium being the receptacle of this inconceivable number of energising nervous structures which are absolutely essential for healthy daily mental and bodily exercise.

In a child born under normal conditions, we must presume that some of the brain portions which eventually harmonise with the whole sensuous body, are entirely absent or in a very chaotic state. But we shall return to this portion of the infantile perception presently.

The impression then received by the youthful mind are characteristically similar to those of an adult, varying in kind and degree, by reason of what one might term the non-completion of growth of all the various materials that form a fully developed brain.

That there is a craving for truth and knowledge is abundantly evident in the embryo travelling novelist, naturalist, soldier, statesman, etc. He generally takes things as they seem to be rather than actualities during the process of brain building. Those portions which should preponderate in giving a clear perception are yet in a state of infantile growth, varying of course, in different constitutions, and producing certain unmistakable differences in desires and accomplishments. Of course, the natural mind of youth is for ever soaring upward to complete its allotted cycle of full development. In the meantime, the preponderance of that portion of the brain wherein lies the germ of attention and consideration is sure to outstrip all other forms of brain influence, and herein is contained a red danger-signal, or rather a green caution for most lecturers.

There are a certain class of young folk who do not let the glamour of universal novelty of things in general blind them, preventing a serious investigation of all objects that surround them and play upon the sensations; these few of the elect necessarily avoid the mind being stolen into a false and inaccurate judgment which as many of those who have "come to the age of discretion" have to be mercilessly ostracised and confined to oblivion as follies and blunderers. But all inhabitants of the kingdom of young folk are not so fortunate, in fact it is rather the exception than the rule.

During the delicate process of brain formation, general constitutional symptoms, inherited or

acquired, may check the natural building up, and form a temporary disorder affecting the cerebral cavities. If they are what might paradoxically be termed healthy disorders or merely a dislocation of certain brain cells which in time recover their equilibrium, with the general strengthening of other parts of the body of an average harmony of the whole nervous and muscular system, there is then no cause for distress. But it is a curious fact that in comparison with diseases of the stomach, bowels, or skin, the brain is the last to excite attention, and then only in extreme cases. Probably most people are at times acutely conscious of cerebral disorders, the saner self-consciousness proclaims this fact but too plainly in noticing fugitive spectral illusions, of which we shall have occasion to speak presently.

For the moment we will examine the youth who, with extreme facility, can form his ideas free from the strain of external impressions and and in the midst of a thousand strange combinations; these in their essence will be correct. But then there is the youth who, gathering correct knowledge, (the sister of luminous perception), can not fuse it into an integral part of the system of previous knowledge, because of youthful established associations of thoughts, feelings and desires, which have as yet not attained maturity to judge the various merits of men and things, which, though not altogether lost, they find an inlet into the mind under the peculiar condition which has already been stated. The preponderance of the growth of the faculty of attention, which becomes in reality unhealthy attention, or disorganised attention, which, loosened from the central "will forces," permits, instead of an addition of correct mathematical knowledge, a vivid condition of emotion, inducing a state of physical and spiritual abstruseness which have only the power of transmitting to the brain a series of physical sensations, which, being broken elements in the complete change of natural phenomena can only produce, semi-barbaric responses which are essentially of a physical nature. The solution of this curious miscarriage of knowledge seems to lie in the hypothesis that work of a certain portion of the brain is devoted to recording facts repeatable by speech, rather than recording a blow at the time given, which sensation can only be repeated by means of simili, which is not memory.

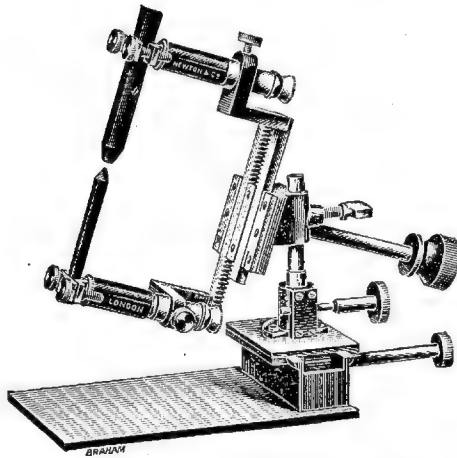
The lecturer may now well ask himself the question, what kind of book, both helpful and hopeful, would appeal most to the mind of youth for the purpose of projecting many scenes therefrom on a screen?

So much trash is now written that it is an imperative necessity to select scenes of character and event from those books which all unconsciously form a youth's taste in promoting a library. There is abundant material amongst living authors or those quite recently deceased. To give the lad a taste of the best should be the lecturer's aim, and these need not of necessity be novels: they may be critical essays, or biographies (the latter preferred), or scenes from travel books. These are mostly embellished with good illustrations and easily procurable; some, indeed, have coloured plates.

I am not disparaging the authors of a bygone age, or impugning their offices for good, but it does seem to me that a youth should study the present rather than in the past. In England and America it is computed that 10,000 new volumes of various kinds are printed every year, so that there need be no excuse as to scarcity of matter for limelight lectures. Without mentioning any particular books of suitable authors, I think I have shown conclusively that there is ample room and opportunity for the Boys' Lantern Lecturer. There are a thousand books (illustrated) useful as a means of assisting the youth of our time in forming an idea as to a successful future. It is so natural for youth to build "castles in the air," that a wisely directed influence (such as lays in the hands of a modern up-to-date lanternist) of this description would induce the lad, in his mind's eye, to build useful institution, useful characters on *terra firma*, where we live more and have our being, and thus concentrate for utility, the marvellous amount of energy which is annually, wasted by building the said castles in the air (not to say engendering a false idea of life, which, for want of systematic training of the mind is wasted and lost for ever.

In the case of adult minds, the science of evolution consciously or unconsciously enters into conspiracy with the perception. The more intelligent and mathematically correct the slide picture, the more lasting and effectual will be the impression, helping to clear the mind of a host of cobweb-like doubts, which, on entering the lecture-hall, it petted as a mother does a child. Should the "doubts" have been of a sceptical and self-centred nature, then the "*reason*" will be able to check and compare anterior impressions, with those of later perception, probably entering into a position to deduct well ordered logical conclusions.

In the case of reading, visiting picture galleries, etc., the self-conscious or rather the personal point of view enters largely into our impressions and thus biased opinions are formed, which, unlike light if subjected to spectroscopic analysis,

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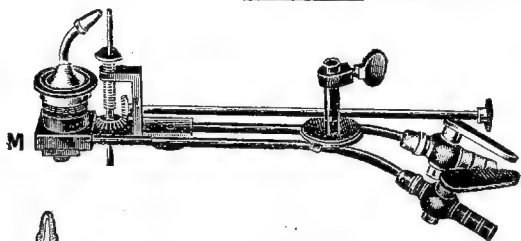
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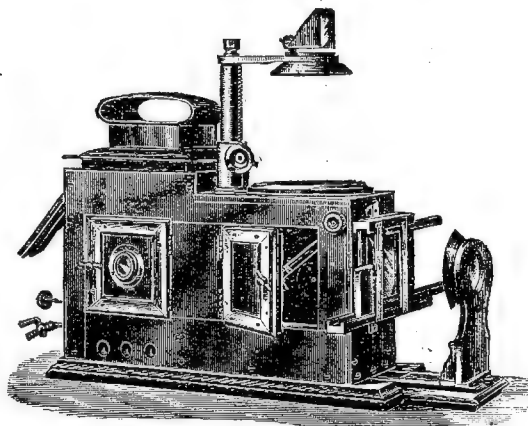
LAWSON ETHER SATURATORS

For Single Lanterns or Biunials, the results are all that can be desired.

Slide Hire Department.

R. B., Ltd., were the pioneers of the modern system. They send slides on hire to all parts of the Kingdom, and themselves insure against breakage. They have an immense selection.

Hire and Index List O1. Free on application. Apparatus Catalogue O1 post free, 3d! Slide Catalogue O1 post free, 6d.



UNIVERSAL SCIENCE LANTERN.

(Stroud & Rendall's Patent). Latest and most Improved Design

This lantern is undoubtedly the finest lantern for school and college use that has ever been devised. It is fitted with hinged mirror, which sends the beams upwards through a horizontal convergent lens. There is a prism as shewn, and everything is of the very best finish.

Price, with prism, safety or mixed jet, and carrying case, £9.

would not yield correct results. It is well to get a right view of things apart from a personal opinion. While the influence of our environment may be right, our judgments may be wrong. Take the historical novel as an instance, the same may be said of a sea or modern battle story.

For the sake of argument, we will presume the scene is laid in the 17th century. This epoch-making historical event has been, so to speak, written round and padded for the 20th century reader, and presented to us in cold type. On reading, our opinions and impressions differ in kind and degree according to our knowledge of the period, and our power to transplant our minds on the 17th century soil whereon all the events take place. Now, it is safe to say, the majority of readers have no knowledge of the period or power to create the 17th century atmosphere where the author's world lives and moves. The lantern lecturer can come to the aid of such, and at a single bound put the author's point of view before the people, and clears away many misconceptions, almost creating the proper atmosphere in which the characters breathe and think. The lecturer has only one competitor and that is the stage, but, as some of the loveliest and best books are not dramatised, and if they have been, are already classed, as far as the theatre is concerned, as obsolete, he has the consolation, with Keats, of knowing that a "thing of beauty is a joy for ever."

Thro' our Lantern.

Carbon Lantern Slides.—We have had the opportunity of inspecting a series of beautiful flower studies, etc., produced by the carbon process, and we must say that for richness of effect upon the sheet it would be hard to beat these. There are in all 100 varieties, each full of rich detail and perfect rendering—they range from the modest snowdrop to the stately orchid. We can heartily recommend any lanternist who desires such slides as will bring down the house by beautiful pictures, to send to Mr. Tylar, 41, High Street, Aston, Birmingham, for a sample slide, post free, 1/2. Four wave studies are also very charming and of double interest because they show what beautiful effects can be got with a cheap camera when handled with judgment. These waves were taken by a Tylar's 12/6 Tit-Bit hand camera, and for detail they will eclipse many produced by more costly instruments. The set of four slides are sent post free 4/3. A pretty study of a white kitten in a straw hat has had a good sale. It is a striking and most realistic study and must appeal to all fond of household pets. This slide will be sent post free for 1/2.

Tylar's Linen Binders for Lantern Slides.

—Now the lantern season is on the wane is an opportune time to rebind those slides whose binding has been damaged by use and prepare them for still further use. Paper has always been a source of trouble owing to its so easily fraying out. Hence it is with pleasure we draw the attention of our readers to something more durable and yet as easy of application. W. Tylar of 41, High Street, Aston, Birmingham, has solved the problem and by having a special linen made with a texture soft and silky, and coating this with a specially tenacious cement, it is now easy to bind your slides in such a way that they'll last as long as Paddy Haggerty's breeches and they've been handed down through several generations and still were as tough as when first made. The linen binder is as easy to apply as paper and possess the advantage that they grip the glass at once and don't spring up in the drying. They are put up in boxes of 50 for 1/-, post free 1/1. We advise you to send for a box, try them, and you will feel that if for this hint only, your subscription to the Magic Lantern Journal has not been money wasted.

Correspondence.

DEAR SIR,

Will you kindly allow us space to announce that we have decided to change the trade name to be used with our new film from Pelloid to Kodoid.

These films will, therefore, now be sold and advertised as "Kodoid" Plates.

We take the opportunity also of announcing that these Kodoid film plates will be issued orthochromatized. This will apply to the whole of our output of these plates in future, and there will be no increase in price on account of the plates being made colour sensitive.

It may be in place to remind those interested that these new Kodoid Plates are light, thin, flat films, which are attached to card supports at the edges by metal clips, so that they can be used in ordinary plate holders or sheaths wherever glass plates can be used, and without any preparation whatever.

Yours faithfully,

KODAK, Limited.

43, Clerkenwell Rd., E.C.,

February 19th, 1903.

Patent Intelligence.

RECENT PATENT INTELLIGENCE.

- | | |
|-------|---|
| No. | RECENT PATENT INTELLIGENCE. |
| 1093. | Improvements relating to devices for synchronously operating phonographs and cinematographs. H. H. Lake (La Société L. Gaumont et Compagnie). 15th January, 1903. |
| 1483. | Improvements in and connected with the rendering of cinematograph representations. F. W. Donisthorpe. 21st January. |
| 1833. | Improvements in or connected with means for taking photographs in rapid succession and similarly exhibiting pictures produced therefrom, with or without phonographic accompaniment. Severino Ojea del Pardo. 26th January. |
| 3048. | Improvements in or relating to consecutive view apparatus or cinematographs. R. H. Edwards. 9th February. |

Professional Lanternists' Register.



BELFAST.

ALEX. R. HOGG, Trinity Street.

DEVON.

GEO. POOLE, South Moulton.

JAMES TAYLOR, Richmond House, Penzance.

BIRMINGHAM.

THE UNIVERSITY LANTERNIST.

JOHN FELLOWS, 74, Winson Street.

A. G. BARCLAY, 54, Bath Row.

GREEN & Co., 57, High Street, Aston.

FRANK G. POTTER, Silverbirch Road,
Erdington.

LEEDS.

J. W. GARBUTT, The Gilchrist Lanternist,
Upper Armley.

LINCOLN.

A. H. VIDLER, 8, Motherby Lane.

CHISWICK, Middlesex.

CHAS. CLARKE, 39, Elliott Road.

LONDON.

J. BRANDON MEDLAND, 44, Lorrimore Road,
Kennington, S.E.

DEAL.

J. C. WHITE, 116, High Street.

REIGATE, REDHILL and DISTRICT.

A. H. DUNNING, 79, Doods Road, Reigate.

DONCASTER.

A. G. DREWRY, Baxtergate.

STOURBRIDGE.

DALLOW & LEWIS, New Road.

DUDLEY.

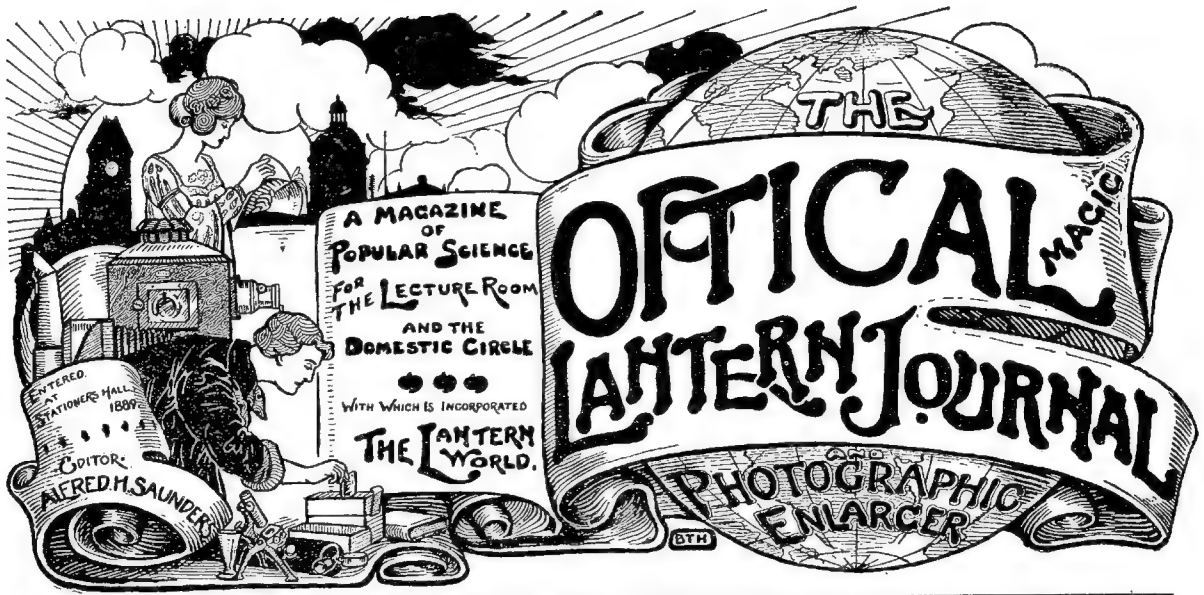
CHAS. DUDLEY, Cinematographist.

SWANSEA.

S. DURK, 80, Upper Aberdyberthi Street.

Only well authenticated Professional Lanternists will be registered, and it is requested that two references as to ability shall be furnished.

Professional cards inserted for 2/6 per annum. The Journal will be sent post free for a year for an additional 2/6.



ESTABLISHED 1889.

PRICE TWO-PENCE.

PUBLISHED ON THE FIRST OF EACH MONTH.

“EXCEPT in the Lantern-land of Rabelais you would hardly think the Magic Lantern had an organ all to itself, now would you? But it has; and the OPTICAL MAGIC LANTERN JOURNAL is a very excellent twopenny monthly. Just the paper to go to WHEN YOU WISH TO BUY a lantern, and just the paper to make your GUIDE, PHILOSOPHER AND FRIEND when you have bought it.”
—From the *Magazine and Book Review*.

Numerous interesting subjects are treated in its columns, written by practical and experienced men.

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As an **ADVERTISING MEDIUM** the Journal is unique, it brings in direct contact **VENDORS** and **USERS** of general Photographic and Lantern Apparatus. It is Published at the price of **TWO-PENCE**, and enjoys a large circulation extending to every quarter of the globe.

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Magic Lantern Journal Co., Ltd., Prince's Chambers, 6, Corporation St., Birmingham.
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LIFE MODEL LANTERN SLIDES.

THE LARGEST PRODUCER IN THE WORLD.



List on application, containing over 200

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Including :



NOW READY.

Set of 10 Slides.

**There ain't another Daddy in the
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Slides made from Customer's Negatives
by the wet Collodion Process.

James Bamforth,

**Optical Lantern Slide
Manufacturer,**

**Holmfirth, - -
- - - Yorks.**

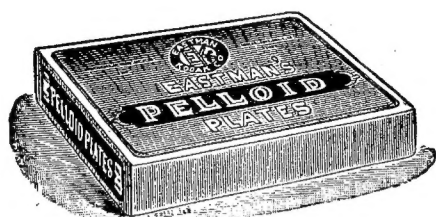
"Angus Macdonald."
"Bonnie Banks o' Loch Lomond."
"Come back to Erin."
"Abide with me."
"For all eternity."
"The dear Home Land."
"The Sunflower and the Sun."
"There's a land."
"Eileen Allanah."
"Everybody's Loved by Someone."
"The Better Land."
"The Village Blacksmith."
"Alone on the Raft."
"The Children's Home."
"The Little Hero."
"Kil'arney."
"Anchored."
"The Holy City."
"Ora Pro Nobis."
"Star of Bethlehem."
"Daddy."
"The Lost Chord."
"Nazareth."
"The Volunteer Organist."

Etc., etc., etc.

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CUT
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PRICE!

KODAK PELLOID PLATES

(FLAT FILMS)

Are light, thin, flat, unbreakable cut films, which are attached to card supports at the edges by metal clips. This enables Pelloid Plates to be used in ordinary plate holders or sheaths wherever glass plates can be used, and without any preparation whatever.

PELLOID PLATES REMAIN FLAT IN THE SOLUTIONS AND ARE DEVELOPED AND FIXED IN EXACTLY THE SAME MANNER AS GLASS PLATES.

No Extra Processes Whatever.

Pelloid Plates are anti-halation, and can be printed from either side, while they may be re-touched on both sides.

They are
Nearly 20 % Cheaper than
other Cut Films.

Prices.

	Per doz.
Quarter-plate ($4\frac{1}{4}$ in. $\times$ $3\frac{1}{4}$ in.)	1/3
5 $\times$ 4	2/2
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Wholesale and Retail Branches: 96 Bold Street, LIVERPOOL, and 72-74 Buchanan Street, GLASGOW

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Regent Street, W.; and 40 Strand, London, W.C.

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